

PTO/SB/08A (08-03)

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		Application Number	Not Yet Accorded		
		Filing Date	Not Yet Accorded		
		First Named Inventor	Mark C. Hanna		
		Art Unit	Not Yet Accorded		
		Examiner Name	Not Yet Accorded		
		Attorney Docket Number	NREL IR 01-14		
Sheet	1	of	2		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 4,963,508	10/16/1990	Umeno et al.	
	2	US- 5,002,618	03/26/1991	Kanai et al.	
	3	US- 5,264,389	11/23/1993	Hamada et al.	
	4	US- 5,744,829	04/28/1998	Murasato et al.	
	5	US- 5,944,913	08/31/1999	Hou et al.	
	6	US- 5,959,307	09/28/1999	Nakamura et al.	
	7	US- 6,100,546	08/08/2000	Major et al.	
	8	US- 6,150,604	11/21/2000	Freundlich et al.	
	9	US- 6,232,138 B1	05/15/2001	Fitzgerald et al.	
	10	US- 6,281,426 B1	08/28/2001	Olson et al.	
	11	US- 6,300,558 B1	10/09/2001	Takamoto et al.	
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FOREIGN PATENT DOCUMENTS						
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Sheet	2	of	2	Attorney Docket Number	NREL IR 01-14

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	Yamada, A. et al., "Ion implantation of isoelectronic impurities into InP," Nuclear Instruments and Methods in Physics Research B80/81 (1993) 910-914, North Holland.	
	2	Xin, H.P. et al., "GaNO.011P0.989 red light-emitting diodes directly grown on GaP substrates," Applied Physics Letters, Vol. 77, Number 13, 25 Sept. 2000, 1946-1308.	
	3	Biwa, Goshi et al., "Metalorganic vapor-phase epitaxy of GaP1-x-yAsyNx quaternary alloys on GaP," Journal of Crystal growth 189/190 (1998) 485-489, Elsevier Science.	
	4	McConnell, R.D. and Kapur, V.K. "Photovoltaics for the 21st Century II," Energy Technology Division, Proceedings Vol. 2001-10, The Electrochemical Society, Inc.	
	5	Hong, Y.G. and Tu, C.W., "Ga(In)NAs and (Al)GaNP: Potential Materials for Photovoltaics", Electrochemical Society Proceedings Volume 2001-10, 415-423.	
	6	Xin, H.P. et al., "Gas-source MBE growth of Ga(In)NP/GaP structures and their applications for red light-emitting diodes," Journal of Crystal Growth, 227-228 (2001) 558-561, Elsevier Science	

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